BRUHATH BANGALORE MAHANAGARA PALIKE,DASARAHALLI ZONE

NAME OF THE WORK: Drilling of Bore wells in W-12 Shettyhalli sub-division

Est cost Rs 25.00 lakhs

Sl.No.	Description	Unit	Nos	L	B	D	Qty.	Rate	Amount
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting venner or schlumbergers's method, including reconnaissance survey of geological formation, Geological investigation of existing ground water in vicinity, its quality, quantity & acceptability of the users indicating the location of site, recommended depth of casing pipe required to seal the top unconsolidated formation including an extra depth of 1.0 mtr in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personal and labour required etc (P.NO-47, I.NO-9.4, PRED 12-13 SR)								
		nos	3				3	1938.46	**5815.00**
	Basic Rate	1882.00	Each						
	3% area weightage	56.46	Each						
	Total	**1938.46**	**Each**						
2	Sinking of borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above 900 CMF & above in all strata including over budern upto 20 m. fixing of casing pipes, collars & cap with necessary cutting, threading & welding including transportation of rig and supporting vehicle, crew charges & cost of consumables etc., complete including yield testing at the final depth with minimum working of compressor for one hour(excluding cost of casing pipes, collars, cap etc.,) (P.NO-47, I.NO-9.1, PRED 12-13 SR)								
	0.00 to 50.00 Mtr.	Mtr	3	50.00			150.00	315.18	**47277.00**
	50.00 to 100.00 Mtr.	Mtr	3	50.00			150.00	412.00	**61800.00**
	100.00 to 150.00 Mtr.	Mtr	3	50.00			150.00	458.35	**68753.00**
	150.00 to 200.00 Mtr.	Mtr	3	50.00			150.00	484.10	**72615.00**
	200.00 to 250.00 Mtr.	Mtr	3	50.00			150.00	560.32	**84048.00**
	250.00 to 300.00 Mtr.	Mtr	3	50.00			150.00	600.49	**90074.00**
	300.00 to 350.00 Mtr.	Mtr	3	50.00			150.00	640.60	**96090.00**
	Basic Rate	306.00	Rmt						
	3% area weightage	9.18	Rmt						
	Total	**315.18**	**Rmt**						
3	PVC pipes 6kg/sqm 250mm outer dia (BWSSB pg no:53 I.NO 11 SR 13-14)								
		each	**3**	15.00			45.00	1100.00	**49500.00**
4	Supplying of ISI Mark 175 mm nominal bore medium black ERW casing pipe of 5mm thick black electric resistance continous welded midle steel tube material confirming to IS 1387/1993 and manufactured from hot rolled steel skelp/stripes in random length of 4 to 7 mtr both ends threaded confirming to IS 554/1985 one end(including of all taxes) (P.NO-III, I.NO-84, PRED 12-13 SR)								
		Mtr	3	80.00			**240.00**	1364.75	**327540.00**
	Basic Rate	1325.00	Rmt						
	3% area weightage	39.75	Rmt						
	Total	**1364.75**	**Rmt**						
5	175 mm dia M.S. Casing cap (P.NO-III, I.NO-85, PRED 12-13 SR)								
		Each	25				**25.00**	100.00	**2500.00**
	Basic Rate	100.00	Rmt						
	Total	**100.00**	**Rmt**						
6	supply of 175mm M.S collars each (P.NO-III, I.NO-86, PRED 12-13 SR)								
		Each	3	50.00			**150.00**	150.00	**22500.00**
	Basic Rate	150.00	Rmt						
	Total	**150.00**	**Rmt**						

	& delivery at site brand new texmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia wells compressing of single stage or multistage CF pump close coupled by means of stainless el coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water irrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers, sand guard. Non return valve etc Complete the pump and motor shall from an integral unit with all the required fittings 15.000. HP 30 stage **(P.NO-XXXXI, SL.NO:33, PW,P & IWTD B C SR-2015-16)**								
		set	3				**3.00**	70685.00	**212055.00**
	Basic Rate	70685.00	Nos						
	Total	**70685.00**	**Nos**						
8	suppling and fixing ISI marked Galavanised nild stell tube (conteneous welded electrical resisitance welded (ERW) HI freezuency inclucation whelded hot finished we with latest amendments, pipes threded at both aend the other end procte with HD colled as per specification in random lenghts 4 to 7 confirming to is 1239/part 1990 with amendement 1-5 and with all its latest amendement if any : the pipe suppiled ahould be with BIS mark galvanised iron pipes :ISI 239(part-1) 1990 50mm dia "C" class (heavy duty collar)**(PRED banglore =circle rate dated 26.07.2010)(pg no:III/item no:78)**								
		Rmtr	3	300.00			**900.00**	210.00	**189000.00**
	Basic Rate	210.00	Rmt						
	Total	**210.00**	**Rmt**						
9	suppling & fixing 50mm dia GI collar heavy duty (PRED SE approved rates 12.133 pg no.III/78								
		Rmtr	4	46.00			**184.00**	210.00	**38640.00**
10	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 volts 4 sqmm of 56 strands 0.3mm dia , Group A BWSSB pg no:535,I NO :30C								
		Mtr	3	660.00			**1980.00**	159.50	**315810.00**
	Basic Rate	159.50	Rmt						
	Total	**159.50**	**Rmt**						
11	supplying and fixing of 50mm dia GI union ISI mark (PWD & IWTD BC SR-2015-16, P.NO.XXXVII,								
		No's	3	1.00			**3.00**	223.70	**671.00**
	Basic Rate	223.70	Nos						
	Total	**223.70**	**Nos**						
	supplying and fixing of 50mm dia GI Nipple with ISI mark (PWD & IWTD BC SR-2015-16, P.NO.XXXVII,								
		mtr	3	3.00			**9.00**	104.30	**939.00**
12	KSRB 13-7-.2-1: providing and fixing in position 50mm nominal bore gun metal non return vaule vertical type of approved make including cost of all materials labour and HOM of equipments with all leads complete as per specifications (PWD & IWTD B.c 2015-16=p.noXXIV sl.no.659 code no.0125)								
		mtr	3				**3.00**	1145.00	**3435.00**
13	supply and fixing 50mm dia Elbow with ISI mark (PWP & IWTD B.C 15-16=pg.noXXXVII)								
		mtr	3	3.00			**9.00**	111.80	**1006.00**
14	Supplying & delivery at site brand new / Essen / Lotus sunsines/Adarsh/ Gk controls best indigenous make combine energy meter-cum-control panel board unit of size 1200 x 600 x 300 mm minimum mechanically strong and vermin and water proof the unit shall have two detachable doors suitable for operation on 3ph, 50Hz, 380/440 volts, AC supply with spring loaded latch locking with a key ribs should be provided inside the door , canopy apron and louvers ventilators shall be provided the combine energy mtr cum control panel board unit suitable for operation on 3ph, 50Hz, 380/440 AC supply shall be consisted etc,. completed T panel board shall be fabricated on single unit in the above components panel board for suitable pumpset above components panel board for suitable pumpset above 6.50 HP to 15.00 HP with star delta starter (PRED banglore circle SE approved rate dated 15-16)								
		no			LS			LS	**44000.00**
15	Erection of pump including aligning and balancing with all necessary erection material and labour including supply and fitting of two pairs of supporting clamps with necessary bolts and washers one set of swell cap cable clips and watertight gland cable protecterrs bolts and nuts vavlues and guage etc involved in the job (approved rates)								
		no			LS			LS	**12000.00**

	of supply & fixing of control panel board .in door type unit IS 5124 10HP to 20HP (PWP & SR of 2015-16,pg-121/no.12)								
		no			LS			LS	**17700.00**
	ppyling of TPST with rewireable procelain channels in SM incloser 3amps(I/NO6.5.1 p.no.44)								
		no	3				**3.00**	1868.00	**5604.00**
	suppling and fixing polished wood brand made of not less than 15mm thicl plank on both sides made out of non more than 2 pieces and fixing the same wall using tapperd inverted wooden plugs,raws,screws etc.(20x20x2.5)(pg-44 I no.6.6.6 electrical SR)								
		no	3				**3.00**	302.00	**906.00**
19	supplying and ficing LED type panel board indicating lamp with required colour suitable for 220A A.c 50HZ 12/24V D.c.s(electrical SR) 15-16 p.no-40/I no .34(a)								
		no	3		LS		**3.00**	LS	**1290.00**
20	suppyling and fixing and wiring heavy duty low voltage capacitos conforming to IS 2834.3 phase 400/400 volts grade . For power factor improvement of rotating machinery coast per KVAR b group B(pg 56.i no-6.34 electrical SR) up to 5KVAR(pg -44,ino-6.41)								
		no	3				**3.00**	138.00	**414.00**
21	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 5 to 32 Amps DP (P.NO - 47, I.NO - 6.16.1, electrical SR 14-15)								
		No's	3	1.00			**3.00**	418.00	**1254.00**
	Basic Rate	418.00	Nos						
	Total	**418.00**	**Nos**						
22	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 55, I.NO - 7)								
		No's	3				**3.00**	2727.00	**8181.00**
	Basic Rate	2727.00	nos						
	Total	**2727.00**	**nos**						
23	Supplying and fixing Class-A (medium duty)GI Pipe of wall thickness not less than 3.25mm on pole?wall .drain crosssing with necessary clamping arrangments for UG Cable of 1.1 KV class 40mm (P.NO - 62, I.NO - 7.12.1 (b)								
		Mtr	3				**3.00**	345.00	**1035.00**
	Basic Rate	345.00	mtr						
	Total	**345.00**	**mtr**						
24	Supplying and laying of L.T.U.G Cable having aluminium conductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4class B PVC Cable core 16 sqmm (P.NO - 55, I.NO - 7.4.4, electrical SR 14-15)								
		Mtr	3	15.00			**45.00**	140.40	**6318.00**
	Basic Rate	140.40	mtr						
	Total	**140.40**	**mtr**						
25	Digging of trenches of 60 x 50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 61-.62,it electrical SR)								
		Mtr	3	10.00			**30.00**	106.00	**3180.00**
	Basic Rate	106.00	mtr						
	Total	**106.00**	**mtr**						
	Labour charges for laying 1.1KV class UG cable when supplying departmentally/agency in excisting trench GI pipe /stone ware pipe /on wall /on pole as required a 6sqmm to 16sqmm (pg-61,it 7.8.10								
		rmt	3	10.00			**30.00**	10.80	**324.00**
26	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc,4 core 16sqmm (ele SR of 14&15 pg-62/7,ino 13.2)								
		No's	3	3.00			**9.00**	280.00	**2520.00**
	Basic Rate	280.00	nos						
	Total	**280.00**	**nos**						

	g of porcelain fuse channel with cutouts 32amp(PRED SR 15-16 pg-45.ino-6.7.2)								
		no	3	3.00			**9**	180	**1620**
	COM charges								
		LS					**3**	LS	**45000**
	Earthwork excavation for pipe line trenches including depositing on bank upto a lead of 50m including shorting and strutting ,danger lighting and using sight rails and bonding roads at every 100m wherever necessary as directeding the following starta manual means (PRES SR 11-12,pg-1/1,ino-2.1								
	75mm dia 6kg/cm2	Cum	3	450.00	0.60	0.75	**607.50**		
	62mm dia 6kg/cm2		3	225.00	0.60	0.75	**303.75**		
							911.25		
	A)ordinary soil 50%						**455.62**	135.00	**61508.7**
	B)hard soil 50%						**455.62**	188.00	**85656.56**
29	Providing and installing at site of work PVC Pipes of 2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete **(P.NO - 15, I.NO - 3.42& B, PRED SR-2012-13)**						1120		126860
	75mm dia 6kg/cm2	Mtr	3	450.00			**1350.00**	104.00	**140400.00**
	62mm dia 6kg/cm2		3	225.00			**675.00**	123.00	**83025.00**
30	Gate value 50mm nominal type PWD SR 14-15 pg-XXIV/no.673								
	A)50mm dia	no					**30.00**	1600.00	**48000.00**
31	Gate value 65mm nominal type PWD SR 14-15 pg-XXIV/no.674								
	A)65mm dia						**18.00**	2050.00	**36900.00**
32	Gunmetal non return valve 50mm nominal bore vertical type PWD SR pg-XXIV ino-658								
		no	3	40.00			**120.00**	1202.00	**144240.00**
33	KSRB 2-4 Refilling available earth around pipe lines, trenches with slected available earth from trench excavation including watering,consolidation in layers of 15cms thick including disposing of surpuls earth eith alead 200mtr(PRED SR 11-12,pg-3.1,ino-1.6)								
	aty vide item no 1 A+B	Cum					15 **877.75**	61.00	**53543.00**
	Basic Rate	72.00	cum						
	6% area weightage	4.32	cum						
	Total	**76.32**	**cum**						
								Sub Total	**2494687.26**
									~~14658~~
34	Miscellaneous and unforseen +1%								**5312.74**
									25000
								TOTAL	**2500000.00**
							Rs. Twenty five Lakhs Only		

ನಂ. CE/D2/AS/PR/12-13/Pg 40 ದಿನಾಂಕ : 04/01/2016
ರೂ. 25,00,000/- ಮಾತ್ರ
ಅಕ್ಷರದಲ್ಲಿ
ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರ ಅನುಮೋದನೆ ಬಗ್ಗೆ
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PWD SR 2015-16
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.

Assistant Engineer
Ward-13

Asst. Exeutive Engineer
Shettyhalli Sub-division
BBMP, Bangalore

CE/D2/TS/17/15-16/Pg
ದಿನಾಂಕ : 04/01/16
ರೂ. 25,00,000/- ಮಾತ್ರ
ಅಕ್ಷರದಲ್ಲಿ
ಈ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಮಾನ್ಯತಾ ಪ್ರಾಧಿಕಾರಿಯವರ ಅನುಮೋದನೆ ಬಗ್ಗೆ.
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು

Exeutive Engineer
Dasarahalli division
BBMP, Bangalore